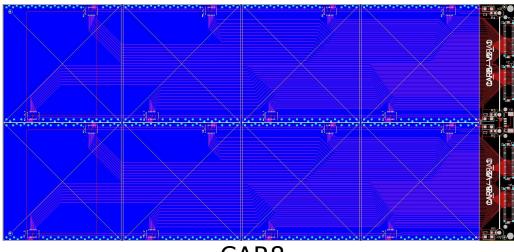
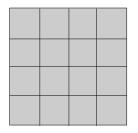
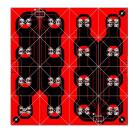
Components of the ProtoBrick



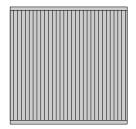
CAR8



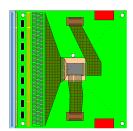
Pad Sensor



INTC Interconnect board on top of the sensor

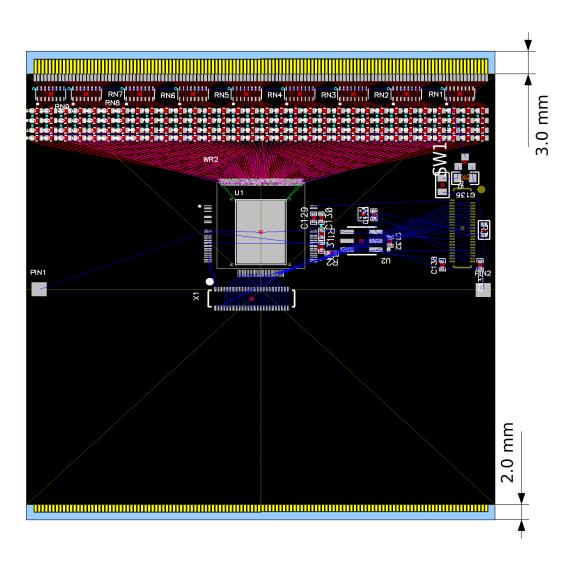


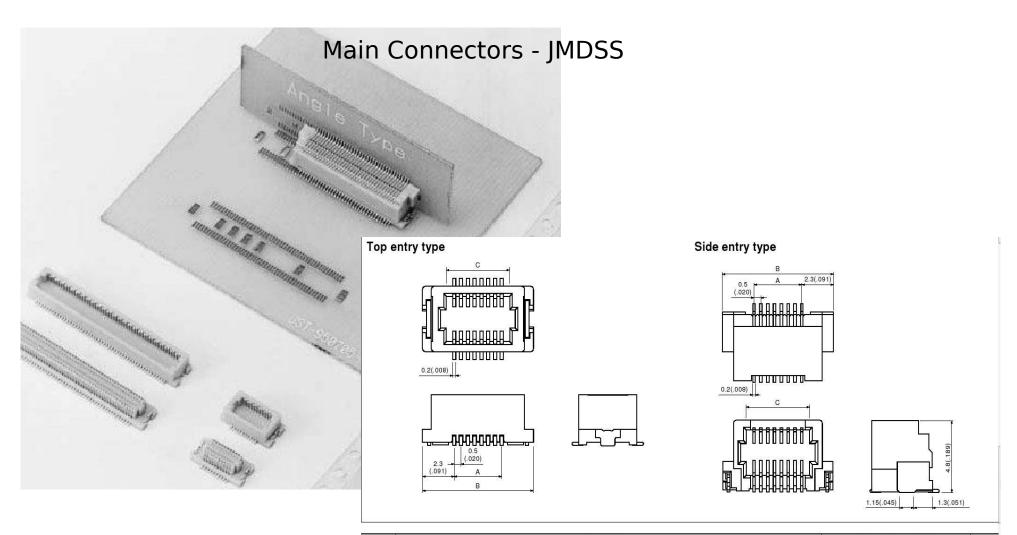
Strip Sensor



SpRC Readout Card with SVX4 chip

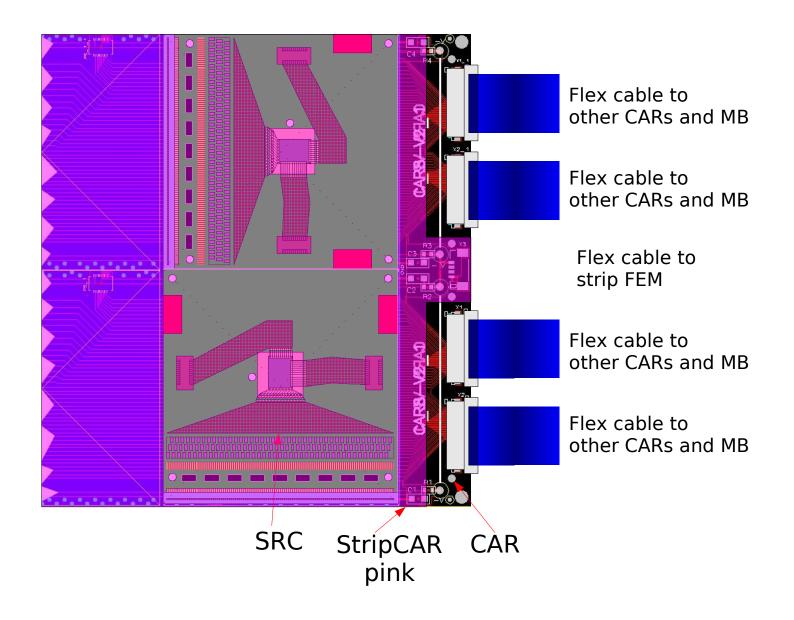
Strip Readout Card Mounted on the Sensor Scale 2:1

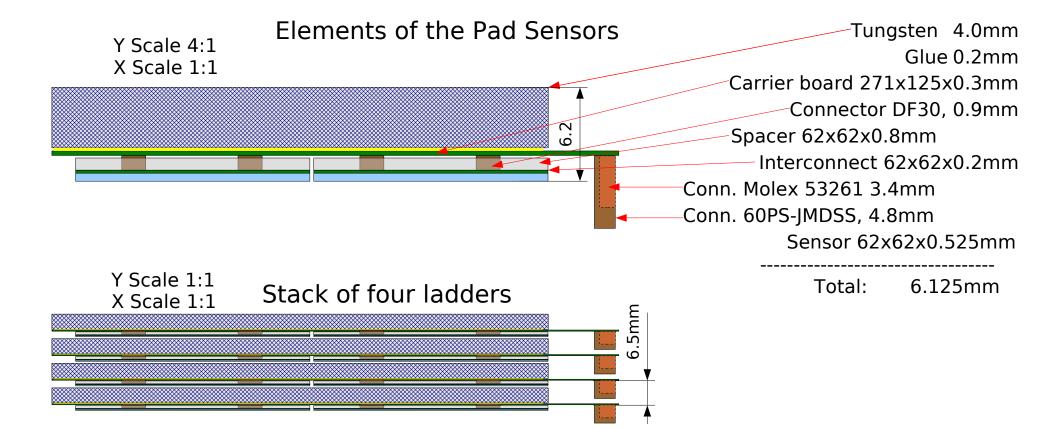




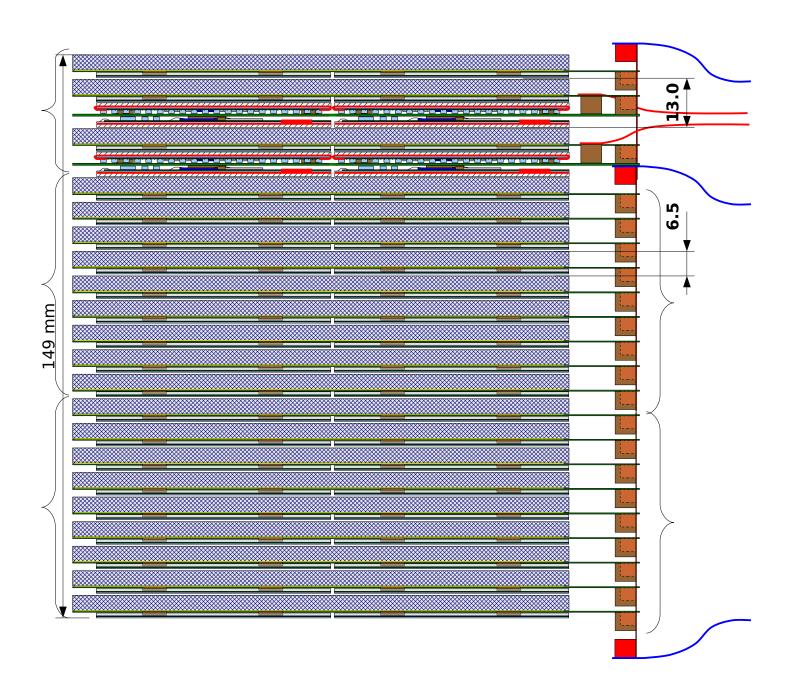
Circuits		Mode	Dim					
		Cido outur turo	Δ.	В	С	Q'ty / reel		
	4.5mm (.177")	5.0mm (.197")	6.0mm (.236")	Side entry type	A	В	l	,,,,,,
20	20P-JMDSS-G-1-TF	_	_	20PS-JMDSS-G-1-TF	4.5(.177)	9.1(.358)	5.7(.224)	1,500
30	s - 2	30P5.0-JMDSS-G-1-TF	-	30PS-JMDSS-G-1-TF	7.0(.276)	11.6(.457)	8.2(.323)	1,500
40	40P-JMDSS-G-1-TF	40P5.0-JMDSS-G-1-TF	~	40PS-JMDSS-G-1-TF	9.5(.374)	14.1(.555)	10.7(.421)	1,500
50	50P-JMDSS-G-1-TF	-	50P6.0-JMDSS-G-1-TF	50PS-JMDSS-G-1-TF	12.0(.472)	16.6(.654)	13.2(.520)	1,500
60	60P-JMDSS-G-1-TF	_	60P6.0-JMDSS-G-1-TF	60PS-JMDSS-G-1-TF	14.5(.571)	19.1(.752)	15.7(.618)	1,500
70	70P-JMDSS-G-1-TF	-	70P6.0-JMDSS-G-1-TF	70PS-JMDSS-G-1-TF	17.0(.669)	21.6(.850)	18.2(.717)	1,500
80	80P-JMDSS-G-1-TF	<u> </u>	=	80PS-JMDSS-G-1-TF	19.5(.768)	24.1(.949)	20.7(.815)	1,500
100	100P-JMDSS-G-1-TF	-	_	100PS-JMDSS-G-1-TF	24.5(.965)	29.1(1.146)	25.7(1.012)	1,500

Outline of the StripCAR – the Carrier Board for Strips





Calorimeter Stackup



11/25/08 Protobrick Construction and Preparation for the Beam Test

Pads 1 PMMtester Pads carrier board for testin 2 CAR8v2 Pads carrier board for EM18 3 CAR10v2 Pads carrier board fod HAD 4 INTC Interconnect	\$2	4 21 0 240	ds	4	\$700		30%		
2 CAR8v2 Pads carrier board for EM18 CAR10v2 Pads carrier board fod HAD	\$2	21			\$700		30%		
3 CAR10v2 Pads carrier board fod HAD		0		11			BNL	0%	0%
		-		''	\$3,500	Decided that all CAR8 should be the same length	100%	60%	60%
			8 240	0		Finally delivered!	100%	100%	100%
Foil Gold plated foil		1m²		1m²	\$200	One sheet is in Dubna, good for 180 INTC. Additional sheet is in preparation	N/A	N/A	50%
6 Spacer Ceramic spacer 7 Cover Thin PCB 62x62x0.2mm		240 168	300	0	\$500 \$200	Fabricated at Dubna	100% 0%	100% 100%	100% 100%
8 MicroModule Sensor + INTC + Spacer + C	Cover	240				Assembly started at Dubna	100%	100%	5%
Summing 9 Cable EM0 Backplane flex boards (3 SC	;)	6		6	\$700	·	0% Dubna	0%	0%
Summing 10 Cable EM1,2 Backplane flex boards (9 SC	;)	12		12	\$1,000		0 % Dubna	0%	0%
Flex cables with JMD connection	ctors	>12	90	30	\$1,500	Need staffing	100%	100%	10%
PAMP-4K Current preamps with gain 4	Kohm	40	28	28	\$800	Single panel	100%	50%	50%
PAMP-40K Current preamps with gain 4	0 Kohm	20		28	\$800	Single panel	100%	2%	2%
MBPAMP Motherboard for preamps		>6	6	0		Connectors press-fit needed	100%	100%	80%
15 Crate		1	1	0			100%	100%	100%
16 Backplane Backplane for crate		1		2	\$300		0 % Dubna	0%	0%
17 ADC 18 Brick Skins		3	144	0		Provided by Chi	100% BNL	100% 0%	100% 0%
Strips									
19 SpRC Strip readout card		32		40	\$6,400	Being designed	60% Dubna	0%	0%
StripCAR Strip carrier board		2		2	\$800	Concept design	10% Dubna	0%	0%
21 FlexCables Same as for pads 22 Cover Ceramic 62x62x0.4mm 23 Foil 24 FEM		4 32 32 3		32 32 0	? ? ?	2 tested, 2 spares fabricated	100% BNL BNL 100%	100% 0% 0%	0% 0%
25 ProbeCard Probe card for sensors		1		1	•	Manufacturer contacted, quotation requested	10% BNL	0%	0%
Test Beam						4			
26 SMMTester Single sensor carrier with LE 27 SpRC 28 Mechanics		6 4 1m2				The same as for strips	Dubna +	0%	0%
29 FEM		ports			?	4 modules of Astakhov system	100%	50%	
30 HV systems 31 N3C ColdFire MPU	25	x10u 4	A 2	2	\$0 \$320	or NIM modules from the pool	BNL 100%	0% 100%	0%

Color coding

Full set is available
Most of the items are available. The set is not complete.
Work in progress on a non-critical part
Critical part